

E. K. Jenner.

Attaching Artificial Teeth to Plates.

Nº 96,438.

Patented Nov. 2, 1869.

Fig: 1.

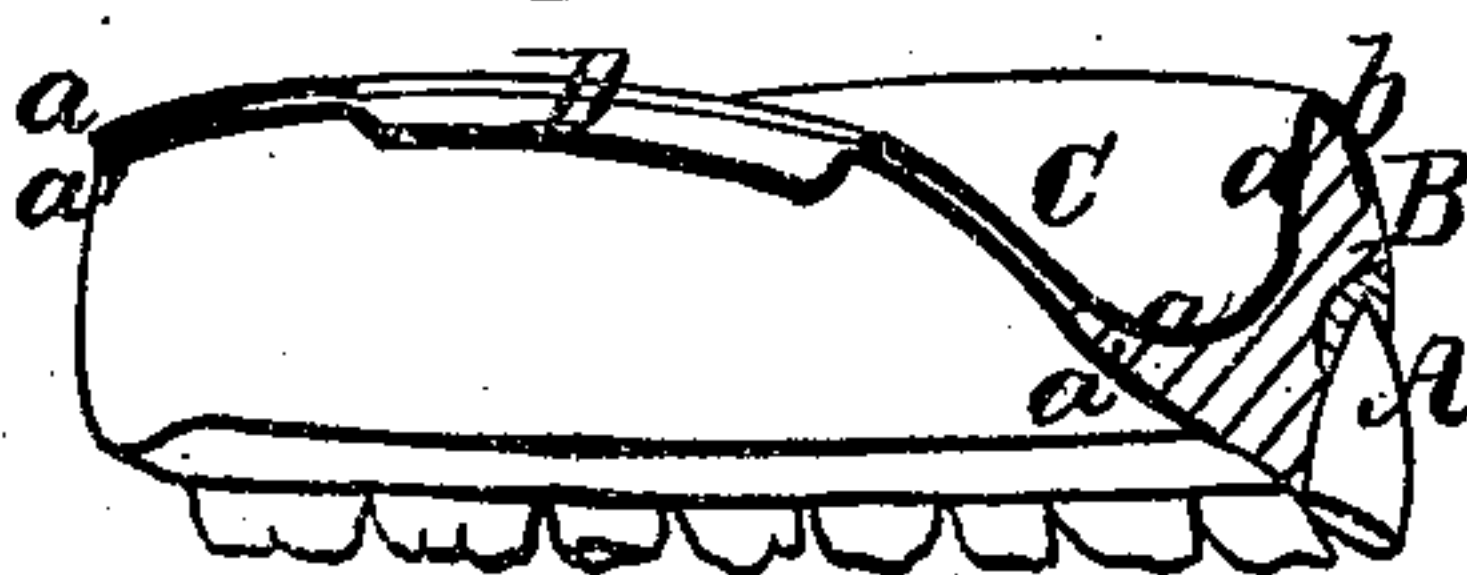
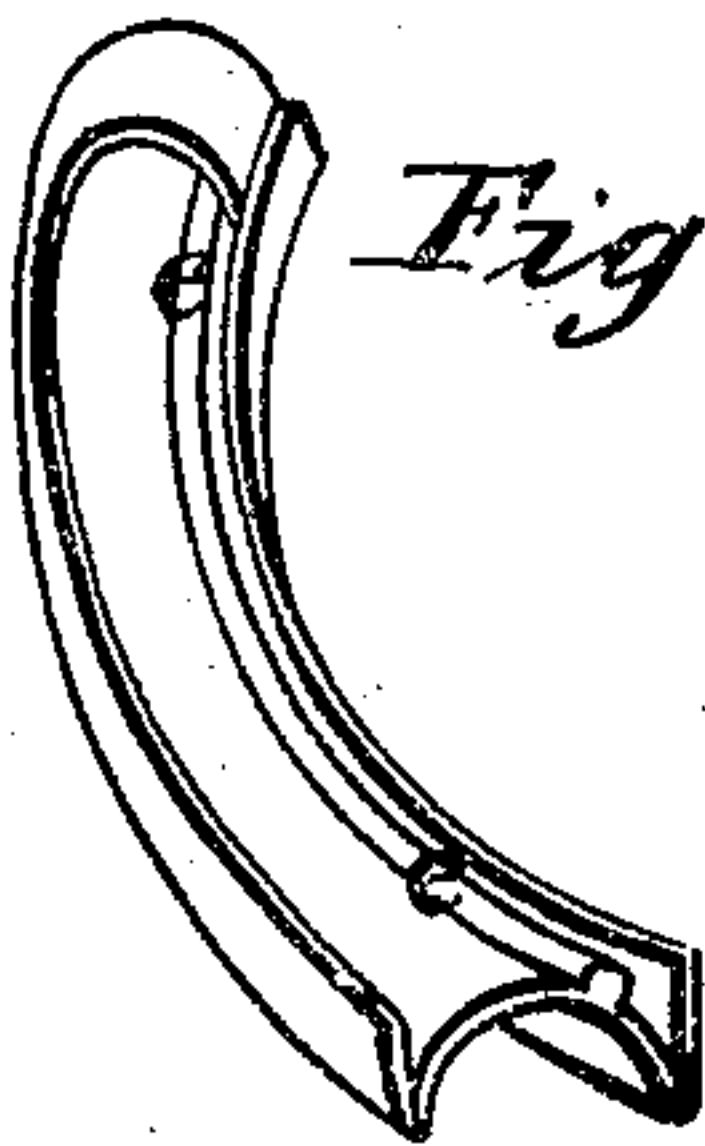


Fig: 2.



Witnesses;

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ELIJAH K. JENNER, OF HEALDSBURG, CALIFORNIA.

Letters Patent No. 96,438, dated November 2, 1869.

IMPROVED METHOD OF UNITING ARTIFICIAL TEETH ON RUBBER BASES TO METALLIC PLATES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ELIJAH K. JENNER, of Healdsburg, county of Sonoma, State of California, have invented a Method of Joining Artificial Teeth on Vulcanite Bases to Metallic Plates; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use my said invention or improvement without further invention or experiment.

My invention relates to an improved construction of artificial teeth, whereby durability, strength, and economy are combined with a proper degree of lightness, thus providing a very desirable and useful combination, when applied to the purpose above mentioned.

To accomplish this, I set the gum-work in a vulcanite base, and then, by employing two thin metal plates, I build upon the base the plate which comes in contact with the palate of the mouth, in such a manner that the two are firmly joined together.

To more fully illustrate and explain my invention, reference is had to the accompanying drawings, forming a part of this specification, of which—

Figure 1 is a sectional view of the upper plate.

Figure 2 is a perspective view of the lower plate.

A, in the drawing, shows the teeth and gum-work of an upper set of artificial teeth, placed upon or embedded in a vulcanite base, B, forming merely a bed or foundation for holding the teeth and gum-work, and its longitudinal extent and form of outline must of course be adapted to the requirements of each particular case.

The plate C is composed of two thin metal plates, *a* and *a'*.

The lower plate, *a'*, is first swaged to the proper form or "impression" of the mouth, and the vacuum cavity D formed in it at the same time.

The upper plate, *a*, is also provided with the proper impression of the palate of the mouth, and has its outer edge turned up, so as to encircle the gums of the wearer.

In the plate *a*, a portion is cut away around the vacuum cavity D, and the edge thus cut is then brazed or united to the raised edges of the cavity, thus uniting the two thin plates *a* and *a'*.

The teeth A, with their vulcanite base, are then placed against the plate, so that the thin plate *a'* will rest against this vulcanite base, on the inside, near the

base of the teeth, while the plate *a* rises vertically inside the gum-work and base.

A narrow strip of metal, *b*, is then placed around the outside of the rubber, and its upper edge brazed to the upper or raised edge of the plate *a*, and filed rounding, so as to prevent it from hurting the mouth.

Vulcanized rubber is then introduced between the two thin plates until the space between the plates and gum work is entirely filled.

The rubber so employed is then subjected to the usual process of hardening by heat, and the edges of the two plates are brazed or soldered at all places where they come in contact, and filed as above described.

The upper edge of the plate *a* might be turned over instead of uniting the separate strip *b*, but I prefer the mode described, as greater strength is obtained; besides, the proper curvatures and indentures can be made by filing when the ends are united; but if it is turned over, filing it would weaken, and frequently separate the two.

The lower set is constructed much in the same manner, always, instead of turning over the edges to form recesses into which to press the rubber, uniting the two edges by brazing or soldering, for the reason above set forth.

A small wire, *c*, shown in fig. 2, may be attached to the plate, near the widest part, in order to more securely confine the rubber, and unite it with the metal plates.

The advantages of thus uniting rubber teeth to metal plates are obvious.

The workmanship can be done so as to present artificial teeth of great beauty, while their durability will be much greater than as ordinarily constructed.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

The combination of a limited vulcanite base, B, holding the teeth and gum-work, with two metallic plates, *a* and *a'*, substantially as shown and described.

In witness whereof, I have hereunto set my hand and seal.

ELIJAH K. JENNER. [L. S.]

Witnesses:

WILLIAM STANFORTH,
J. L. BOONE.